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(21) International Application Number: PCT/IL97/00010 (22) International Filing Date: 8 January 1997 (08.01.97) (30) Priority Data: 116699                      8 January 1996 (08.01.96)      IL 60/009,769                11 January 1996 (11.01.96)      US 08/595,365                1 February 1996 (01.02.96)      US (71) Applicant (for all designated States except US): BIOSENSE (ISRAEL) LTD. [IL/IL]; P.O. Box 297, 39101 Tirat HaCarmel (IL). (72) Inventors; and (75) Inventors/Applicants (for US only): BEN-HAIM, Shlomo [IL/IL]; 101 Yeffy Nof Avenue, 34454 Haifa (IL). FENSTER, Maier [IL/IL]; 6j Brande Street, 49600 Petach Tikva (IL). (74) Agents: COLB, Sanford, T. et al.; Sanford T. Colb & Co., P.O. Box 2273, 76122 Rehovot (IL).		(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, ARIPO patent (KE, LS, MW, SD, SZ, UG), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).  Published Without international search report and to be republished upon receipt of that report.	
(54) Title: CARDIAC ELECTRO-MECHANICS			
(57) Abstract			
<p>A method of constructing a cardiac map of a heart having a heart cycle including bringing an invasive probe into contact with a location on a wall of the heart; determining, at at least two different phases of the heart cycle, a position of the invasive probe; and determining a local non-electrical physiological value at the location. The method is repeated for a plurality of locations in the heart. The positions are combined to form a time-dependent map of at least a portion of the heart and local relationships between changes in positions of the invasive probe and determined local non-electrical physiological values are determined. Preferably, local electrical activity at the plurality of locations is also acquired.</p>			

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